Diagram No. 1222-4

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey ... Wire Drag Field No. R/H-10-3-84 Office No. FE-259WD LOCALITY State Virginia General Locality Chesapeake Bay Locality 6 Miles East of Wolf Trap 1984 CHIEF OF PARTY LCDR D.D.Winter LIBRARY & ARCHIVES October 3, 1984

☆U.S. GOV. PRINTING OFFICE: 1980-766-230

40.12226 to sign off see .12220 Record of Application

NOAA FORM 77-28 (11-72)

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

REGISTER NO.

HYDROGRAPHIC TITLE SHEET

FE-259 WD

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD NO.

R/H 10-03-84

	State VIRGINIA
	General locality CHESAPEAKE BAY © MILES EAST OF WOLF TRAP
	Locality AWOIS ITEM # 3184
	Scale Date of survey 26 Apr(JD117) +22 May(143),1984
	Instructions dated Dec. 22, 1983 Project No. OPR-E609-RU/HE-84
	Vessel NOAA SHIPS RUDE & HECK, LAUNCHES (1290) & (1291)
	Chief of party LCDR Donald D. Winter
	Surveyed by D.D. Winter, N.G. Millett E.M. CLARK, J.H. MADDOX AND T.G. CALLAHAN
	Soundings taken by echo sounder, hand lead, pole DE-719B S/N 5497, and DE-719C S/N 10278
,	Graphic record scaled byNGM, TGC
	Graphic record checked byTGC, MGK
	Protracted by N/A Automated plot by CAMC)
	Verification by C.D. MEADOR
	Soundings in fathoms feet at MLW MLLW Predicted Tides
_	
	REMARKS: All times are recorded in UTC.
	NOTES IN RED WERE MADE DURING OFFICE PROCESSING.
	STANDARDS CKD 10-9-84
	C.Laj
	puros chaded 3/14/84 STV
	SURF checked 3/14/84 5JV

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Wire DESCRIPTIVE REPORT TO ACCOMPANY HYDROCRAPHIC SURVEY FE-259 WD, R/H 10-03-84 1:10,000 SCALE, 1984, AWOIS # 3184 NOAA SHIPS RUDE & HECK LCDR DONALD D. WINTER, COMBG.

A. Project Authority

This project was. conducted iπ accordance Hydrographic Project Instructions OPR-E609-RU/HE-84, dated Decembery 1983. There are no changes or additions to these original instructions. The purpose of this project is to verify , or disprove certain charted submersed wrecks and obstructions in the southern part of Chesapeake Bay. Detached posxitions, or wire-dras clearances were to be obtained for submersed wrecks and obstructions.

B. Characteristics and Limits of Area Surveyed

This report covers the area bounded by the 100 meters search radius about the charted position of AWOIS Item #3184, latitude 37°24′12.00"N, longitude 076°03′42.00"W. This item consists of the ruins of the Navy Wolf Trap Degaussing Platform.

C. Survey Vessels

The NOAA Ships RUDE, Vesno 9040, and HECK, Vesno 9140, were the only vessels assisted to this survey. Launches 1290 and 1291 were used to obtain the detached positions, pipe dras, and launch dras work during this survey.

D. Hydrographic Sheets

The hydrographic sheets used in this survey were made of mylar and were constructed with the Disital PDP 11/34 computer, S/N AG22645, and Houston Instruments roll-bed plotter, S/N 8731-8, aboard the Skip RUDE. The project instructions required that all data be smooth plotted at a scale of 1:20,000 but a scale of 1:10,000 was used for all field plotting and final data analysis for clarity. A SCALE OF CIO,000 was used for SC

The field sheet was plotted at a scale of 1:10,000 and was used to hand plot the launches position while on line. A smooth sheet was also plotted aboard the RUDE using the same equipment as described above. This smooth sheet was used to plot the hans strip, the detached position of the hans, the limits of the foul area, and the detached position of the Wolf Trap Desaussing Lighted Bell Buoy "WT2". An overlay was used to plot the clearing strip which achieved the least effective clearance depth. The clearing strip in the opposite direction was not smooth plotted but is contained in the survey records. The field records are being sent to the Atlantic Marine Center for final

verification and smooth plotting.

E. Equipment and Techniques

The initial survey operations on JD 117 consisted of an initial echo sounder search within the 100 meter search area of the reported position of AWOIS Item#3184 at 37°24′12″N, 076°03′42″W. A Raytheon Model DE-719 B fathometer, S/N 5497, was used during this search. The extent of the obstruction was determined during this operation with an approximate least raw depth of 8.5 feet, as determined by the fathometer and corrected only for vessel draft. The UESSEL OFFT WAS 2.6 FT. NO POSITION FOR THE OCOTH WAS GIVEN

A pipe dras was then conducted in the vicinity of the least depth determined by fathometer. A marker buoy was deployed at this position to facilitate the pipe dras operation. Circle sweeps with the pipe dras set at 7 feet were conducted about this marker buoy. A hans was encountered at position 37 24 13.34"N, 076 03 39.23"W., fix 02, least depth of 7.10 feet at MLLW. COPPER WAS NOT CORRECTED FOR THE VELOCITY OF SOUND IN WATER.

Launch drag operations were then conducted on this item on May 22, 1984, UD 143, to completely resolve this item, since there was some doubt as to the overlap of pipe drag strips because the pipe was severely bent during a hang. A hang was encountered during strip 2, fix 25, at 37 24′ 13.65″N, 076 03′ 38.99″W, at an effective depth of 5.% feet at MLLW. corrected for predicted tides. This area was then cleared in two directions at an effective depth of 4.0 feet at MLLW, during strip 1, and 3.% feet at MLLW, during strip 3.

Field Smooth Plottins of dras strips was limited to the hans strip and the south-north clearins strip of 3.50 feet effective depth, represents the least effective clearance depth. Smooth Plotte Decime Effective Received.

Taunches with all launch dras operations on JD 143. A Raytheon Model DE-719 B, S/N 5497, was used on Launch 1291, and a Model DE-719 C, S/N 10278, was used on Launch 1290.

F. Control Stations

Two electronic control stations were used for this survey. These stations were:

Station Name	Position	Elev.
YORK SPIT LIGHTHOUSE (1900) /	37°12′34.452″N / 076°15′16.369″W	11.28m
WOLF TRAP LIGHTHOUSE (1898) /	37° 23′ 24.618"N /	15.85m

These stations were located by NGS and the adjusted positions for these stations were obtained from published NGS horizontal control data. All stations are of Third-Order, Class I control accuracy or better. The station positions are based upon the North American Datum of 1927.

G. Calibration and Position Control

Vessel positioning for all work was accomplished with the Del Norte 520 series electronic positioning equipment operated at a frequency of 9400 MHz in the range-range mode. A listing of the MMU and master units used by the vessels during this survey is listed by Julian day in Appendix A. Remote unit 72, S/N 2897, was installed at YORK SPIT LIGHTHOUSE. The remote installed at WOLF TRAP LIGHTHOUSE was unit 78, S/N 2986.

Two baseline calibrations were performed during this survey. The baseline calibrations were conducted in the immediate work area and entirely over water in accordance with AMC OPORDER 79. Baseline calibration distances were determined by the HP / 3800A electronic distance measuring instrument, serial number 0987A00157. The baseline used for the calibration ran from the Little Creek Coast Guard, western most pier, to the Little Creek East Jetty Light "1". The distance of this baseline, as measured by the HP 3800A, was 2183.14m.

The openins baseline calibration was conducted on 16 Aprilx 1984 (JD 107) and the closins baseline calibration will be conducted on 5 Junex 1984 (JD 157). The closins calibration data will be provided at a later date.

The opening and closing daily calibration checks for this survey were accomplished using the three point sextant, fix calibration method in accordance with the Hydrographic Manual Section 4.4.3.3. The daily correctors for all calibrations were stable and within accuracy tolerances for a survey of this scale. Therefore, only baseline calibration data should be applied to the raw position data during final processing and smooth plotting. See Appendix A for daily calibration data and Appendix D for a complete listing of stations used. THE DALY CORRECTORS WERE USED FOR OFFICE PROCESSING.

H. Dates of Survey

This survey was besun on 26 Aprilx 1984 (JD 117) and \sim completed on 22 May x 1984 (JD 143).

I. Reduction and Processins of Data

Data collected durins launch dras operations was manually entered in the wire dras volumes while on line. The position data was then entered in the Disital PDP 11/34 computer off line. The programs used were the R/H Double Precision Wire Dras programs. The dras strips were then smooth plotted with the Houston Instruments roll-bed plotter. Effective depths from reduced data were then drawn on the dras strips in colored pencil. Only the hans strip and the clearing strip which achieved the least effective clearance depth were plotted.

Test data was applied to the drass in a manner which differs slightly from the Wire-Dras Manual. This method has been used for the last several years aboard the dras ships and is a more conservative method. When an uprisht was lowered, the deeper dras depth was not claimed until the time of the first

test at that depth. When an uprisht was raised, the dras depth from the first test after the raisins of the uprisht was applied to the time when the uprisht was raised. (If the amount of lift increased during a drag when uprishts remained unchanged, this decreased dras depth was applied back to a time halfway between the time of the earlier test, with less lift, and the time of the later test with the greater lift.) TO THE POSITION PRECEDING THE LIFT CHANGE.

Predicted tide correctors were then applied to the dras depths obtained. These predicted tide correctors were senerated onboard with the ship's Disital PDP 11/34 computer and predicted tide tapes for 1984. These tide tapes were supplied to the ships / by MOA 231. Hardcopy printouts of the predicted tide correctors used during this survey are included in the data file. See Appendix I for tide correctors.

The chanses in effective depth that occurred during a drag were applied at the exact time of chanse. Fix interval for the launch drag work was two minutes, therefore some chanses in effective depth occurred on the minute between fixes. When this occurred the time was interpolated and drawn in appropriately.

All detached positions were computed using the Geodetic Packase - 800610 Program and the HP 9815A computer, S/N 1825A02388.

J. Junctions and Splits

This survey consists of an AWOIS item investigation with ______ no junction requirements.

K. Comparison with Prior Surveys

The survey area is contained within the limits of prior survey H-8448. (1958) This item was positioned on the prior survey with the notation "stack on platform". Depths in the vicinity of this desaussins platform ranged from 33 to 41 feet on the prior survey. In addition, two buoys were positioned in the vicinity of this platform on the prior survey. See Section L of this report for charting recommendations and the complete findings of this survey. By THIS FIELD EXAMMATION PE-259 WOC 1984).

L. Comparison With the Chart

The largest scale chart which contains the survey area is NOS Chart 12226, scale 1:40,000. The current edition of this chart at the time of survey operations was the 10th Ed., Mar. 27/82 and was used for all chart comparisons. CHARTED INFO. IS CNM 42/80.

The ruins of the former Wolf Trap Desaussins Ranse were located over a rectansular area approximately 120m by 60m, centered approximately 0.05 NM east of Wolf Trap Desaussins / Lishted Bell Buoy "WT2". This buoy was found to be on station and adequately marks this obstruction.

Chartins Recommendations

Chart a foul area within the following limits: Oo NAT CONCUR

NW Corner 37 24' 14.24"N, 076 03' 40.52"W

NE Corner 37 24' 14.26"N, 076 03' 38.65"W

SW Corner 37 24' 10.34"N, 076 03' 40.54"W

SE Corner 37 24' 10.10"N, 076 03' 38.68"W

This area consists of a very irresular bottom with depths ransins from 15 to 20 feet with the surrounding area depths senerally around 40 feet.

Chart an obstruction within this foul area at 37° 24′ 13.55″N, 076° 03′ 38.79″W, with a wire dras cleared depth of 3.5 feet at MLLW. corrected for predicted tides. Remove the "Submobstr (3 ft rep 1980)" lesend from the chart. Retain the Wolf Trap Desaussins Lishted Bell Buoy, R "WT2" Qk Fl BELL, as charted at 37° 24′ 11.96″N, 076° 03′ 43.64″W.* SEE THE CHARTING RECOMMENDATION DELOW.

All presently charted landmarks in the proximity of this survey were visually verified from offshore and are adequate as charted. No additional landmarks or aids to navisation were noted in the area as suitable for chartins.

* RETAIN THE SYMBOL AND NOTE "Subm obstr" AS CHARTED, DELETE THE NOTE (3ft rep 1980) AND ADD THE NOTE (Cleared 3 ft).

M. Adequacy of Survey

AWOIS Item #3184 was completely and throughly investigated by launch dras, pipe dras, and fathometer search during this survey operation. The least depths and detached positions are accurate and considered adequate for charting.

N. Incomplete Items

There are no incomplete items contained in this survey.

O. Currents and Winds

Tidal currents were closely monitored during the course of this survey, since launch drag operations were planned to run with the surface current. Comparisons were made with the Tidal Current Tables 1984, Atlantic Coast of North America for station 4746, 5.8 miles east of Wolf Trap Light.

In seneral, the times and strengths of maximum current and times of slack water agreed with the predicted times and strengths under normal conditions. However, this entire area is greatly influenced by North, Northwesterly and Southeasterly winds, which considerably prolongs or reduces the tidal currents, depending on wind direction and duration.

P. Personnel

The officers participatins in this survey were LCDR Donald D. Winter, LT Neal G. Millett, LT Edward M. Clark, ENS Jason H. Maddox and ENS Thomas G. Callahan.

Q. General Notes

The format of this report is a composite of the Descriptive Report formats contained in the Wire Dras and Hydrographic Manuals. This format is the optimum composite of the pertinent sections of the two reports and is more applicable to the surveys currently being conducted by the RUDE and HECK.

Loran C rates were not determined for this item since / neither survey launch was equipped with Loran C equipment.

Del Norte interference was experienced on several occasions within the project area as a result of other users of this equipment beins on the air. The Norfolk Dredsins Company is one user of Del Norte 520 equipment in the Norfolk Harbor area. Contact with this company at (804) 547-9391 may prove to be useful in this resard.

Non-priority items were completed during the 1984 field season because of their proximity to priority items, existing — position control, and to reduce transit time to and from anchorage areas.

Progress on this survey was greatly hindered by the numerous crab pots set in the bay during the period April 1 / through May 20. It is not recommended that future projects be scheduled in Chesapeake Bay during crab season and during the above period. CONCUR

Respectfully submitted,

Med A. The Neal G. Millett, LT., NOAA

R. APPROVAL SHEET FE-259 WD R/H 10-3-84

Field operations contributing to the accomplishment of this survey were conducted under my supervision with frequent personal checks of progress and adequacy. This the report and field sheets have been closely reviewed and are considered complete and adequate for charting.

Donald D. Winter

LCDR., NOAA

Commanding Officer

NOAA Ships RUDE & HECK

C. HORIZONTAL CONTROL

No new stations were established for this survey. See Appendix D, Signal List, for a complete listing of all stations used during this survey.

D. SIGNAL LIST

PROJECT:	CAPE CHARLES CITY RANGE	
OPR-E609-RWHI-84 CHESAPEAKE BAY	** ** ********************************	ID HER
SIGNALS/STATIONS	UAT 371445;887 LON 760128.543 	19 10 LON 755714.854
/ YORK SPIT LIGHTHOUSE(1900)	FILE 5	FILE 18
ID MBR 1 LAT 371234.452 LON 761516.369 ELEV'N 11.28 M	CAPE CHARLES WATER TAME CHAR (1914) ID NBR 6 LAT 371604.409 LON 760019.408	
/ WOLF TRAP LIGHTHOUSE [1878] ID HBR 2 LAT 372324.618	CHERITON, WEBSTER CANNING CO. TANK (1939)	FILE
LON 761123.295 ELEV'N 15.85 M	ID NBR 7 LAT 37\732.709 LON 755734.786 FILE 7	ID NBR 12 LAT 70551.122 LON 754845.459
THINGLE SHORK	CAPE CHARLES TILST ANGES MATH TOWER COME	FILE 1
ID HBR 3 LAT 978051.712 LON 761425.075 ELEY'N 16.76 M	ID NER 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FILE 13
CHERRYSTOME BAR LIGHT (1954)	CAME CHARLES TILST AMPES SOUTH TOWER DAME	CAPE CHARLES NEW
ID NBR 4 LAT 371522.825 LON 760158.208	VAT 370802.246 ↓OH 755704.2021 ↓	######################################
FILE 4	/FILE 9 \ A-17	FILE 14

/ NEW PT COMFORT	OLD POINT COMPORT (1919)	CHEARSIDE USE (1939)
ID NBR 15 LAT 371803.167 LON 761641.171	\ID_HBR	ID NBR 25 LAT 371119.428 LON 755954.063
FILE 15	FILE 20	-FILE 25
OCEANNEW MUNICIPAL	LITTLE CREEK WAS DESERT	VOLD PLANTATION FLATS LIGHT (1984)
ATER TRUK (1959) ID HBR LAT 365651.633 LAN 761533/886	ID NBR 21 LAT 365514.382 LDN 7 0 942.063	/ID NBR 26° LAT 371343.138 LON 760250.256
FILE ,16	FILE / 21	FILE 26
MOORE (1943)	HAMPTON RADIO STATION	
ID HBR 17 LAT \$65650.409 LON 741611.431	ID NBR 22 LAT 370217.816 LON 761829.183	
FILE 17	FILE 2	
FORT MONROE TANK	/_TOW_(1947)	
1D NBR 18 LAY 370024 444 LON 761841 996	ID NBR 23 LAT 370712.122 LON 761759.260	
F/I LE 18	FILE 23	
CHAMBERLAIN VANDERBUT	FOX HILL MUNICIPAL WATER TONK (1939)	
HOTEL WEST TOWER (1912) IB MBR 19 LAT 370003.284 LON 761846.377	ID NBR 24 LAT 370454.897 LON 761715.253	
/ IB MBR 19 \ LAT 370003.284 \	ID NBR 24 LAT 370454.897	

FILE

F. DIVING REPORT

NEGATIVE REPORT

H. LOCAL NOTICE TO MARINERS REPORT



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

NOAA SHIPS RUDE & HECK 439 W. York St. Norfolk, VA 23510

May 29, 1984

TO:

Commander, Fifth Coast Guard District

Federal Building 431 Crawford St.

Portsmouth, VA 23705

FROM:

LCDR Donald D. Winter

Commanding Officer

SUBJ:

Notice to Mariners

Survey operations by the NOAA Ships RUDE and HECK, east of Wolf Trap Degaussing Lighted Bell Buoy, "WT2", have located the ruins of the former degaussing range within the following foul area limits:

N	W Corner	37° 24 '	14.21"N, 076°03'	40.52"W
ì	NE Corner	37° 24 '	14.28"N, 076° 03'	38.69"W
5	SW Corner	37° 24 °	10.34"N, -076 03'	40.31"W
5	SE Corner	37° 24 °	10.10"N, 076°03'	38.63"W

The least depth within this foul area is located at 37°24' 13.65"N, 076°03' 38.99"W, with a wire drag cleared depth of 3.5 feet at MLLW, corrected for predicted tides.

This item is presently charted as "Subm obstr (3 ft rep 1980) ".

Reference: AWOIS Item 3184, Chart 12226



J. DANGERS TO NAVIGATION REPORT

See Local Notice to Mariners

DATE: 7/6/84

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE

TIDE NOTE FOR HYDROGRAPHIC SHEET

Marine Center: Atlantic

OPR: E609

Hydrographic Sheet: RU/HE 10/3/84, FE-259 WD

Locality: Chesapeake Bay

Time Period: April 26 - May 22, 1984

Tide Station Used: 863-8610 Hampton Roads, VA

Plane of Reference (Mean Lower Low Water): 4.01 ft.

Height of Mean High Water Above Plane of Reference: 2.6 ft.

Remarks: Recommended Zoning:

For Awois item #3184 apply +10 minute time correction and x0.81 range ratio

Chief, Tidal Datums Section

NOAA FORM 76-155 (11-72) NA	TIONAL	OCEANIC			ENT OF C			IRVEY N	UMBER	
GEO	GRAPI	HIC NA						FE-259	WD	
Name on Survey	./^	on chart	PAR MON	U.S. MAPS	ANGLE CALOCALAN COMPORMAN	or rocal w	P.O. GUIDE	OR MAP	S.Light	,ist
CHESAPEAKE BAY (title)										1
VIRGINIA (title)										2
WOLF TRAP (title)										3
										4
										5
										6
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					Chief	Geogra	pher_	W/C42	× 5	21
					JUL	30 19	84			22
			1							23
										24
										25

HYDROGRAPHIC SURVEY STATISTICS REGISTRY NO.: <u>FE-259 WD</u>

Number of positions		. 36
Number of soundings		0
Number of control stations		9
	TIME-HOURS	DATE COMPLETED
Preprocessing Examination	3	8/17/84
Verification of Field Data	<u> </u>	8/24/84
Quality Control Checks		
Evaluation and Analysis		8/24/84
Final Inspection	. 2	8/24/84
TOTAL TIME	<u>; 24</u>	
Marine Center Approval		8/24/84

Transmittal letter of survey and survey records will be included in the Descriptive Report to identify the records accompanying the survey.

ATLANTIC MARINE CENTER EVALUATION REPORT

REGISTRY NO.:	FE-259 WD	FIELD NO.:	R/H-10-03-84

Virginia, Chesapeake Bay, 6 Miles East of Wolf Trap

SURVEYED: 26 April and 22 May 1984

SCALE: 1:10,000 PROJECT NO.: OPR-E609-RU/HE-84

SOUNDINGS: Constant Tension Wire Drag CONTROL: Del Norte (Range/Range)

Chief of	PartyD.	D.	Winter
Surveyed	by	M. H.	Clark Maddox
Smooth Si	heet hy	D.	Meador

1. PURPOSE OF THE SURVEY

The purpose of this wire-drag field examination was to investigate a Submerged Obstruction (3 FT REP 1980) charted in Latitude 37°24'12", Longitude 76°03'42", from Local Notice to Mariners 42/80.

The result of this investigation is shown on the accompanying mylar overlay inserted in the Descriptive Report.

A position overlay was not prepared because the constant tension wire-drag strips plot directly over each other. Preparation of a position overlay in this case would have been more confusing than enlightening. The computer-generated position overlays used during office processing are in an envelope filed with the original field data.

A hang at an effective depth of 5 feet within an area defined by the field as foul with submerged debris was not plotted on the A&D Sheet. Since this hang was subsequently cleared by 3 feet, it was decided during office processing that it was more critical to show the outlined extent of the foul area rather than the hang location within the foul area on the A&D Sheet.

2. CONTROL AND SHORELINE

a. The control is adequately discussed in sections \boldsymbol{F} and \boldsymbol{G} of the Descriptive Report.

b. There is no shoreline within the area of this wire-drag field examination.

3. JUNCTIONS

This is an item investigation with no junctional requirements.

4. COMPARISON WITH HYDROGRAPHIC SURVEY

H-8448 (1958) 1:20,000

With the additional annotations in red made during office processing, the discussion in section K of the Descriptive Report for the present wire-drag field examination is adequate.

5. COMPARISON WITH CHART 12226 (10th Edition, March 27, 1982)

a. Hydrography

With the additional annotations in red made during office processing, the discussion in section L of the Descriptive Report for the present wire-drag field examination is adequate.

b. Aids to Navigation

The discussion in section L of the Descriptive Report for the present wire-drag field examination is adequate.

6. CONDITION OF SURVEY

The condition of the survey is satisfactory except as follows:

a. Field Work and Records

- 1) Wolf Trap Degaussing Lighted Bell Buoy "WT2" was not hung as required by section 7.11.4 of the Project Instructions. However, this requirement is not considered practical for an item investigation. This requirement is only considered appropriate when the item being investigated has not been located by a regular wire-drag investigation or when a wire-drag investigation is needed to assure an area clearance within which specific investigation items are not identified. Project Instructions in the future should be written to reflect the needs of these specific types of surveys.
- 2) When fathograms are submitted with the field work, the draft of the vessel's transducer should be documented in the Descriptive Report. The fathogram for the fathometer and pipe drag searches done on JD 117 states, "Launch draft recorded in volume." No value for the draft was found in the NOAA Form 77-44 SOUNDINGS or the USGS Forms 411 WIRE DRAG submitted with the field data.

b. Descriptive Report

The Descriptive Report for this survey was well written.

c. Field Plotting

The field plotting of the survey data was satisfactory.

7. COMPLIANCE WITH PROJECT INSTRUCTIONS

Except as noted in section 6 of this Evaluation Report, this field examination adequately complies with the Project Instructions.

8. ADDITIONAL FIELD WORK

This is an excellent wire-drag field examination and no additional field work is recommended.

Chous O. maodo

Charles D. Meador Chief, Evaluation and Analysis Group Evaluation and Analysis

Inspection Report FE - 259 WD

The completed survey has been inspected with regard to survey coverage, investigation of hangs and clearance depths, cartographic symbolization, and verification or disproval of charted data. The survey complies with National Ocean Service requirements except as noted in the Evaluation Report. The survey records comply with NOS requirements except where noted in the Evaluation Report.

Inspected

í

R. D. Sanocki

Chief, Hydrographic Surveys

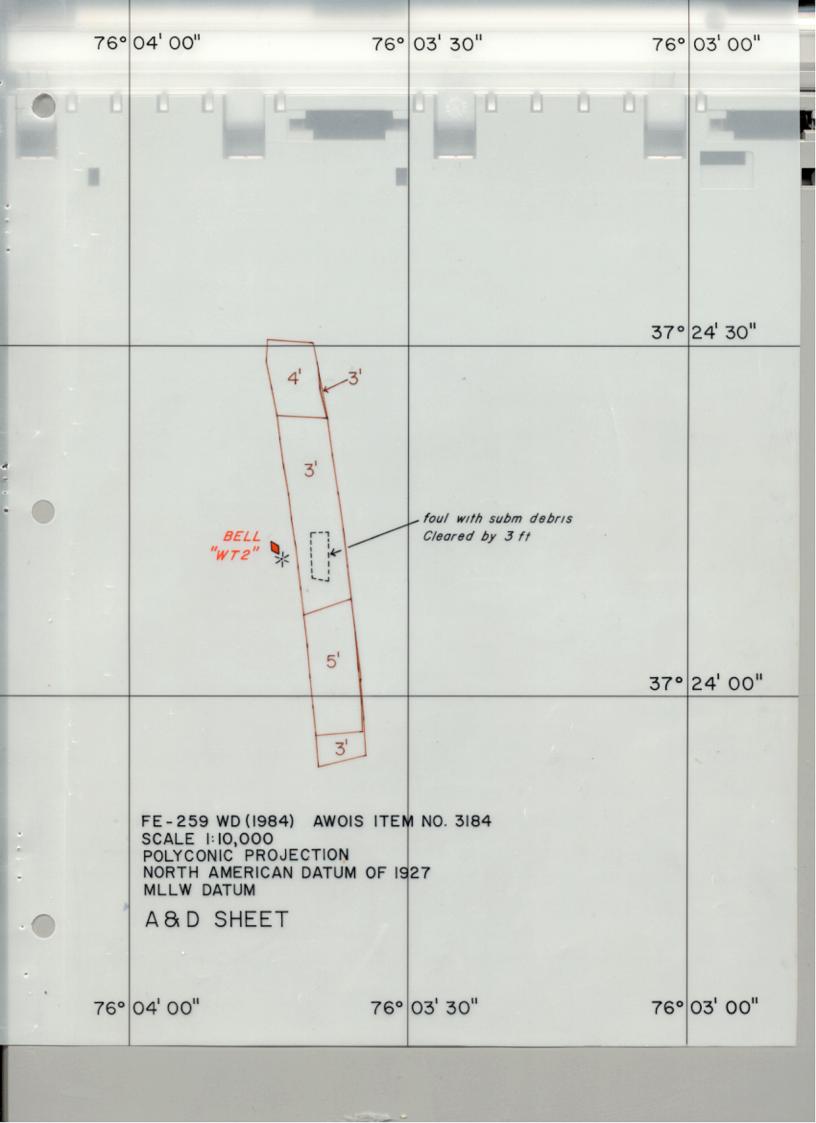
Processing Section

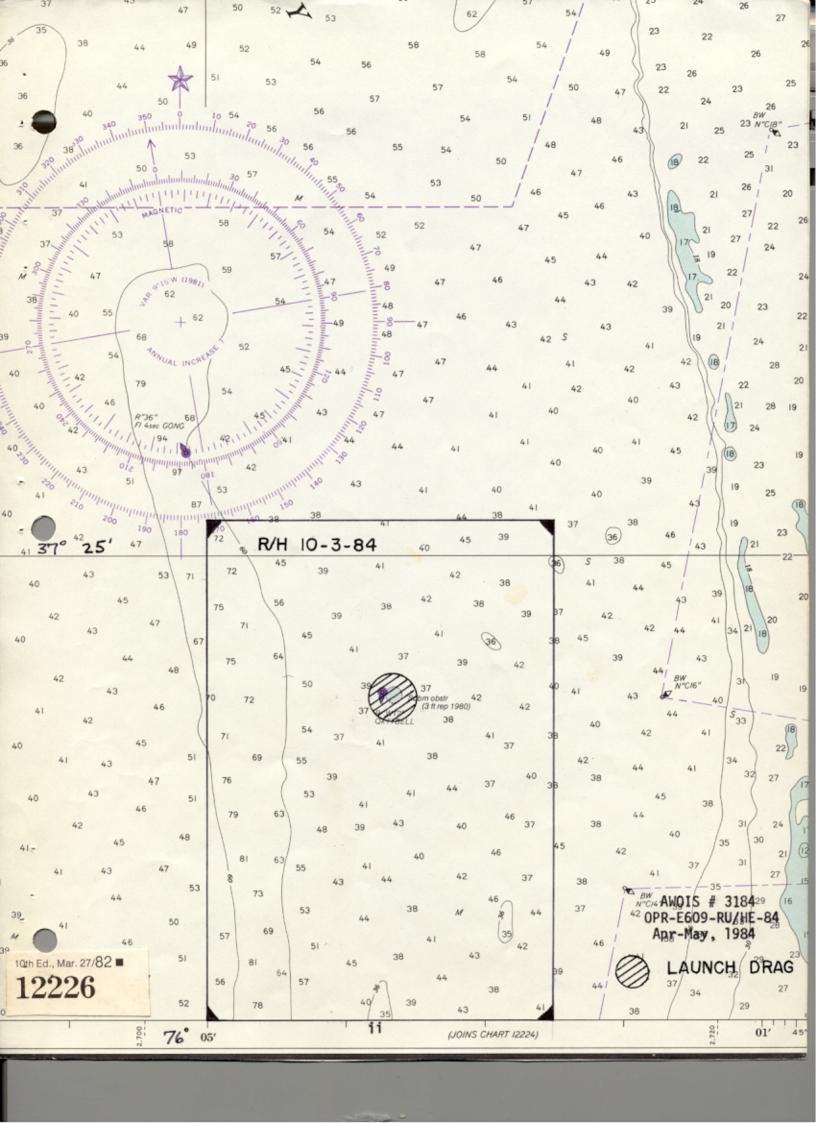
Hydrographic Surveys Branch

Approved August 24, 1984

Wesley V. Hull, RADM, NOAA

Director, Atlantic Marine Center





NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

 1. Letter all information.

 2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any,	from recommendations made under	"Comparison with Charts	" in the Review
,	recommendations made ander	Comparison with Charts	. III CIIC ICCVICW,

CHART	DATE	CARTOGRAPHER	REMARKS
12226	3-19-85	H. Kadde	Full Par Before After Verification Review Inspection Signed Via
			Drawing No. 13 Appld danger Curve Cleaned 3 & Obst
	3-M-85	H. Radde	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 68 Appl
	3-19-85	H. Rudde	Full Par Before After Verification Review Inspection Signed Via
	,		Drawing No. 82 Appld
13220	3-19-85	Hiladle -	Full Pan Before After Verification Review Inspection Signed Via
		<i></i>	Drawing No. 51 Apple Obstr (3 feet)
2221	10-2-85	E Bedomin	Full Part Refere After Verification Review Inspection Signed Via Drawing No
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Enspection Signed Via
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			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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